IN THE CLAIMS:

- 1. (Original) A dynamic weight generator comprising:
- a first memory for storing a PN code;
- a second memory for storing a plurality of weights, said second memory being coupled to said first memory whereby data output by said first memory is used to address data stored in said second memory; and
 - a correlator for multiplying an input signal by data output by said second memory.
- 2. (Original) The invention of Claim 1 wherein said weights are finite impulse response filter correlation coefficients.
- 3. (Original) The invention of Claim 1 wherein said correlator includes two multipliers.
- 4. (Original) The invention of Claim 3 wherein a first of said multipliers is coupled to a source of an in-phase component of said input signal.
- 5. (Original) The invention of Claim 4 wherein a second of said multipliers is coupled to a source of a quadrature component of said input signal.
- 6. (Original) The invention of Claim 5 further including means for summing the outputs of said multipliers.
 - 7. (Original) The invention of Claim 1 wherein said input signal is a GPS signal.

8. (Original) A signal processing system comprising:

first means for receiving a signal and providing in-phase and quadrature signals in response thereto;

second means filtering said in-phase and quadrature signals with dynamic weights to provided weighted signals; and

third means for generating nulling and beamsteering weights for said weighted signals.

- 9. (Original) The invention of Claim 8 further including means for equalizing said signals.
- 10. (Original) The invention of Claim 8 further including means for partitioning said in-phase and quadrature signals in plural bands.
- 11. (Original) The invention of Claim 10 further including means for processing at least one of said bands in accordance with a space frequency adaptive processing scheme.
- 12. (Original) The invention of Claim 11 further including means for performing space time adaptive processing within at least one of said bands.
- 13. (Original) The invention of Claim 8 wherein said second means includes a finite impulse response filter.
- 14. (Original) The invention of Claim 13 wherein said filter is implemented with a dynamic weight processor.
- 15. (Original) The invention of Claim 14 wherein said dynamic weight processor includes:
 - a first memory for storing a PN code;

a second memory for storing a plurality of weights, said
second memory being coupled to said first memory
whereby data output by said first memory is used to
address data stored in said second memory; and
a correlator for multiplying an input signal by data output by said second
memory.

- 16. (Original) The invention of Claim 15 wherein said signal is a GPS signal.
- 17. (Original) A method for dynamic weight generation including the steps of: storing a PN code in a first memory; storing a plurality of weights in a second memory; using an output of said first memory to access said second memory; and multiplying an input signal by data output by said second memory.